

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows.

1. (Currently Amended) A fluid application device comprising:
  - an application nozzle including a discharge opening directed to face an object that relatively travels with respect to the application device, said application nozzle discharging liquid fluid from the discharge opening and applying the fluid to the object;
  - a first tank storing the fluid to be applied to the object;
  - a second tank connected to said first tank;
  - feeding means for feeding the fluid from said first tank and supplying the fluid toward said second tank;
  - a supply path for connecting said second tank to said application nozzle and allowing the fluid in said second tank to be supplied to said application nozzle;
  - pressurizing means for sealing an inside of said second tank and applying a prescribed air pressure to the sealed inside of said second tank;
  - fluid level-detecting means for detecting a fluid level of the fluid in said second tank; and
  - maintaining means for controlling a fluid supply performed by said feeding means based on a detection result of said fluid level-detecting means and maintaining the fluid level at a fixed level,

wherein said application nozzle further includes:

a main body having a tip end with the discharge opening, and a passage defined inside the main body and tapered toward the discharge opening; and

a valve needle arranged in the main body, for opening and closing the discharge opening, the valve needle having a stepped shape of which the diameter decreases in stages toward the discharge opening and which corresponds in position to the passage;

a contact surface formed on the tip end of the main body, the contact surface spreading around a circumference of the discharge opening and being brought into contact with the object;

a discharge hole extending from the discharge opening toward inside of the main body and guiding flow of the fluid from the inside of the main body;

a corner face formed along the circumference of the discharge opening and chamfering a boundary between an inner wall of the discharge hole and the contact surface into a curved surface; and

a coating layer formed on a surface of the main body and covering a region from the contact surface including a corner face to the inner wall of the discharge hole.

2. (Previously Presented) The fluid application device according to claim 1, wherein an inside of said first tank is open to the atmosphere.

3. (Previously Presented) The fluid application device according to claim 1, further comprising:

pressure-detecting means for detecting a pressure of the fluid supplied to the application nozzle through said supply path; and

alarm means for giving a prescribed alarm when the pressure detected by said pressure-detecting means is at a given or higher value.

4. (Original) The fluid application device according to claim 3, wherein said pressure-detecting means includes a pressure indicator that indicates a detection value.

5. (Previously Presented) The fluid application device according to claim 1, wherein said application nozzle is disposed in a rod-forming section of a cigarette manufacturing machine, and seam paste is applied to one of side edge portions of wrapping paper when the wrapping paper travels through the rod-forming section together with garniture tape, the side edge portions of the wrapping paper forming a lap region thereof, the fluid application device further comprising:

opening/closing means for opening/closing said valve needle according to an operation state of the cigarette manufacturing machine.

6. (Canceled).

7. (Currently Amended) The fluid application device according to claim 6, wherein the coating layer is formed by diamond electrodeposition coating.

8. (Currently Amended) The fluid application device according to claim 6 1, wherein the main body has a polished surface on an inner wall of a passage continuing to the discharge hole.

9. (Previously Presented) A fluid application device comprising:

- an application nozzle directed to face an object that relatively travels with respect to said nozzle and being provided with a discharge opening formed at tip end thereof, for discharging fluid to continuously apply the fluid to the object;
- a contact surface formed at the tip end of said application nozzle, said contact surface spreading around a circumference of the discharge opening and being brought into contact with the object;
- a discharge hole formed in a main body of said application nozzle, said discharge hole extending from the discharge opening toward an inside of said application nozzle and guiding flow of the fluid from the inside of said application nozzle;
- a corner face formed along the circumference of the discharge opening and chamfering a boundary between an inner wall of said discharge hole and said contact surface into a curved surface[[],]; and
- a coating layer formed on a surface of said application nozzle and covering a region from said contact surface including said corner face to the inner wall of said discharge hole,

wherein the application nozzle further includes:

a main body having a tip end with the discharge opening, and a passage defined inside the main body and tapered toward the discharge opening; and

a valve needle arranged in the main body, for opening and closing the discharge opening, the valve needle having a stepped shape of which the diameter decreases in stages toward the discharge opening and which corresponds in position to the passage.

10. (Original) The fluid application device according to claim 9, wherein said coating layer is formed by diamond electrodeposition coating.

11. (Original) The fluid application device according to claim 9, wherein said application nozzle has a polished surface on an inner wall of a passage connected to said discharge hole.

12. (Previously Presented) A fluid application device comprising:  
an application nozzle including a discharge opening directed to face an object that relatively travels with respect to the application device, said application nozzle configured to discharge liquid fluid from the discharge opening and apply the fluid to the object;

a first tank configured to store the fluid to be applied to the object;  
a second tank connected to the first tank;  
a feed pump configured to feed the fluid from the first tank to the second tank;

a supply path connecting the second tank to the application nozzle and configured to allow the fluid in the second tank to be supplied to the application nozzle,

wherein said application nozzle includes:

a main body having a tip end directed to face the object;

a contact surface formed on the tip end of the main body, the contact surface spreading around a circumference of the discharge opening and being brought into contact with the object;

a discharge hole extending from the discharge opening toward an inside of the main body and configured to guide a flow of the fluid from the inside of the main body; and

a curved corner face formed along the circumference of the discharge opening and curving from an inner wall of the discharge hole towards an outside of the main body.

13. (Previously Presented) The fluid application device according to claim 12, wherein the application nozzle further includes:

a coating layer formed on a surface of the main body and covering a region from the contact surface including the corner face to the inner wall of the discharge hole.

14. (Previously Presented) The fluid application device according to claim 12, further comprising:

a pressure pump configured to seal an inside of the second tank and apply a prescribed air pressure to the sealed inside of said second tank;

a detector configured to detect a fluid level of the fluid in the second tank; and

a controller configured to control a fluid supply performed by said feed pump based on a detection result of said detector and to maintain the fluid level at a fixed level.

15. (Previously Presented) The fluid application device according to claim 12, wherein an inside of said first tank is open to the atmosphere.

16. (Previously Presented) The fluid application device according to claim 12, further comprising:

a detector configured to detect a pressure of the fluid supplied to the application nozzle through said supply path; and

an alarm configured to provide an alarm when the pressure detected by detector is at a given or higher value.

17. (Previously Presented) The fluid application device according to claim 16, wherein said detector includes a pressure indicator that indicates a visible detection value.

18. (Previously Presented) The fluid application device according to claim 12 wherein said application nozzle is disposed in a rod-forming section of a cigarette

manufacturing machine, and seam paste is applied to one side edge portion of wrapping paper when the wrapping paper travels through the rod-forming section together with garniture tape, the side edge portions of the wrapping paper forming a lap region thereof, the fluid application device further comprising:

a valve needle configured to open and close a discharge opening of said application nozzle; and

a nozzle controller configured to open and close the valve needle according to an operation state of the cigarette manufacturing machine.

19. (Previously Presented) The fluid application device according to claim 12, wherein the coating layer comprises a diamond electro-deposited coating layer.

20. (Previously Presented) The fluid application device according to claim 12, wherein the main body has a polished surface on an inner wall of a passage continuing to the discharge hole.